L Number	Hits	Search Text	DB	Time stamp
1	2	(702/\$.ccls. or 700/\$.ccls.) and (detect\$3	USPAT;	2003/04/16 14:05
_	-	with cavitation) and (operat\$3 with	US-PGPUB	
_		parameter) and (pump with impeller)		0000/04/16 14 0
2	10	(702/\$.ccls. or 700/\$.ccls.) and (detect\$3	USPAT;	2003/04/16 14:06
		with cavitation) and (operat\$3 with	US-PGPUB	
		parameter) and (monitor\$3 with (data or		
	38	parameter))	HCDAM.	2003/04/16 13:00
_	36	(detect\$3 with cavitation) and (operat\$3 with parameter)	USPAT; US-PGPUB	2003/04/10 13:00
	14	((detect\$3 with cavitation) and (operat\$3	USPAT;	2003/04/11 16:4
_	14	with parameter)) and (automatic\$4 with	US-PGPUB	2003/04/11 10.4
		detect\$3)	05 TGIOD	
_	3	(((detect\$3 with cavitation) and (operat\$3	USPAT;	2003/04/11 17:1
_	3	with parameter)) and (automatic\$4 with	US-PGPUB	2003/04/11 17.1
		detect\$3)) and (characteristic with curve)	OD IGIOD	
_	16		USPAT;	2003/04/11 16:4
	10	with parameter)) and (pressure with	US-PGPUB	2003/01/11 10.1
		indication)	OB IGIOD	
_	9	(((detect\$3 with cavitation) and (operat\$3	USPAT;	2003/04/11 16:4
	,	with parameter)) and (pressure with	US-PGPUB	2003, 01, 11 10, 1
		indication)) and (automatic\$4 with	00 10105	
		detect\$3)		
_	1	((((detect\$3 with cavitation) and	USPAT;	2003/04/11 16:4
	_	(operat\$3 with parameter)) and (pressure	US-PGPUB	
		with indication)) and (automatic\$4 with		
		detect\$3)) and (fluid with flow with		
		indication)		
_	1	((((detect\$3 with cavitation) and	USPAT;	2003/04/11 16:4
	_	(operat\$3 with parameter)) and (pressure	US-PGPUB	
		with indication)) and (automatic\$4 with		
		detect\$3)) and (fluid with flow)		
_	2		USPAT;	2003/04/11 16:4
		with parameter)) and (fluid with flow with	US-PGPUB	
		indication)		
_	3		USPAT;	2003/04/11 16:4
		with parameter)) and (net with positive	US-PGPUB	
		with suction with head)		
-	1	(((detect\$3 with cavitation) and (operat\$3	USPAT;	2003/04/11 16:4
		with parameter)) and (net with positive	US-PGPUB	
		with suction with head)) and (alert with		
		user)		
-	7	((detect\$3 with cavitation) and (operat\$3	USPAT;	2003/04/11 16:5
		with parameter)) and (alert with user)	US-PGPUB	
-	4	((estimat\$3 or detect\$3) with cavitation)	USPAT;	2003/04/11 17:1
		and (characteristic with curve) and (net	US-PGPUB	
	_	with positive with suction with head)		
_	1	((estimat\$3 or detect\$3) with cavitation)	USPAT;	2003/04/11 17:2
		and (memory with characteristic with	US-PGPUB	
	0.0	curve) and processor	HODE	0000/04/11 17 1
_	29	1 , ,	USPAT;	2003/04/11 17:1
		and memory and (processor or	US-PGPUB	
		microprocessor or computer or CPU) and		
	_	(operat\$3 with parameter)	HODAM.	2002/04/11 10 0
_	9	(((acameric acameric)	USPAT;	2003/04/11 18:0
		and memory and (processor or	US-PGPUB	
		microprocessor or computer or CPU) and (operat\$3 with parameter)) and (process\$4		
		with plant) and pump		
	40	cavitation and (operat\$3 with parameter)	USPAT;	2003/04/11 17:2
_	49	and (characteristic with curve)	US-PGPUB	2003/04/11 17:2
_	6		USPAT;	2003/04/15 17:3
	l °	and (characteristic with curve)) and	US-PGPUB	2003/04/13 17:3
		((estimat\$3 or detect\$3) with cavitation)	10105	
_	4		USPAT;	2003/04/11 17:2
	1).pn.	US-PGPUB	
	0		USPAT;	2003/04/11 17:2
_	1).pn.) and cavitation and (operat\$3 with	US-PGPUB	
-				1
-				1
_	1	parameter)	USPAT;	2003/04/11 17:2

-	5	<pre>(cavitation and (operat\$3 with parameter) and (characteristic with curve)) and</pre>	USPAT; US-PGPUB	2003/04/15 15:54
		((estimat\$3 or detect\$3) with cavitation)	05 10105	l
		and memory and (processor or		ļ
		microprocessor or computer or CPU)		
_	13		USPAT	2003/04/15 15:51
		"4490808" "4674279" "4683718"		
		"4770843" "4794544" "4823018"	į	
		"4994684" "5322412" "5346359"		
		"5402332").PN.		
-	0	(("4234925" "4319320" "4486381"	USPAT;	2003/04/15 15:53
		"4490808" "4674279" "4683718"	US-PGPUB	
		"4770843" "4794544" "4823018"		Ì
		"4994684" "5322412" "5346359"		
		"5402332").PN.) and (suction with pressure)	!	
	3	(cavitation and (operat\$3 with parameter)	USPAT;	2003/04/15 17:15
-	5	and (characteristic with curve)) and	US-PGPUB	2003/04/13 17:13
	İ	((estimat\$3 or detect\$3) with cavitation)	00 10102	1
		and memory and (processor or		
		microprocessor or computer or CPU) and	1	
]		(suction with pressure)		
-	2	((cavitation and (operat\$3 with parameter)	USPAT;	2003/04/15 17:15
		and (characteristic with curve)) and	US-PGPUB	
		((estimat\$3 or detect\$3) with cavitation)		
		and memory and (processor or		
	i	microprocessor or computer or CPU) and (suction with pressure)) and (suction with		
		fluid with flow)		
_	0	(cavitation and (operat\$3 with parameter)	USPAT;	2003/04/15 17:33
		and (characteristic with curve)) and	US-PGPUB	2003,01,13 17.33
		((estimat\$3 or detect\$3) with cavitation)		}
		and (calculat\$3 with net with position		
		with suction)		
-	1	(cavitation and (operat\$3 with parameter)	USPAT;	2003/04/16 06:56
		and (characteristic with curve)) and	US-PGPUB	
		((estimat\$3 or detect\$3) with cavitation)		
		and (net with position with suction)	IIODAM.	2002/04/15 10 12
-	0	702/\$.ccls. and cavitat\$4 and (operat\$3	USPAT; US-PGPUB	2003/04/15 18:12
		with parameter) and (characteristic with curve) and ((estimat\$3 or detect\$3) with	US-FGFUB	
		cavitat\$3) and (net with position with		i
		suction)		ļ.
_	10	1	USPAT;	2003/04/15 18:33
		with parameter) and (monitor\$3 with data)	US-PGPUB	
-	0	(702/\$.ccls. and cavitat\$4 and (operat\$3	USPAT;	2003/04/15 18:12
		with parameter) and (monitor\$3 with data))	US-PGPUB	
		and (net with position with suction)		0000/6:/06.55
-	1	'	USPAT;	2003/04/16 12:07
		with parameter) and (monitor\$3 with data))	US-PGPUB	
_	1	and (suction with pressure) cavitat\$4 and (operat\$3 with parameter)	USPAT;	2003/04/15 19:06
	1	and (monitor\$3 with data) and	US-PGPUB	2303/04/13 17.00
1	1	(characteristic with curve with		
		(voltage-current or voltage))		
-	51	(operat\$3 with parameter) and (monitor\$3	USPAT;	2003/04/15 19:02
	1	with data) and (characteristic with curve	US-PGPUB	
		with (voltage-current or voltage))		
-	0	((operat\$3 with parameter) and (monitor\$3	USPAT;	2003/04/15 19:03
	1	with data) and (characteristic with curve	US-PGPUB	
	1	with (voltage-current or voltage))) and (electrical with operting with parameter)		
_	3	I	USPAT;	2003/04/15 19:03
	1	with data) and (characteristic with curve	US-PGPUB	
		with (voltage-current or voltage))) and		
		(electrical with operating with parameter)		
-	1	cavitat\$4 and (operat\$3 with parameter)	USPAT;	2003/04/15 19:06
		and (characteristic with curve with	US-PGPUB	
		(voltage-current or voltage))		

-	2	(monitor\$3 with system) and	USPAT;	2003/04/16 09:10
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage)) and		
		(electrical with operating with parameter)	ļ	
_	152	(monitor\$3 with system) and	USPAT;	2003/04/16 07:27
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage or V-A)) and	00 10100	
		(high with frequency fluctuations)		1
	19		USPAT;	2003/04/16 07:02
-	19		US-PGPUB	2003/04/10 07.02
		(characteristic with curve with	US-FGFUB	
		(voltage-current or voltage or V-A)) and		
		(high with frequency fluctuations)) and		i
		pump		
-	11		USPAT;	2003/04/16 07:02
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage or V-A)) and		1
		(high with frequency fluctuations)) and		1
		pump) and parameter		
_	9	((((monitor\$3 with system) and	USPAT;	2003/04/16 07:04
		(characteristic with curve with	US-PGPUB	
	Į.	(voltage-current or voltage or V-A)) and		
		(high with frequency fluctuations)) and	1	
		pump) and parameter) and operating	1	
_	1		USPAT;	2003/04/16 07:04
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage or V-A)) and	00 10102	
	- 00	(high with frequency fluctuations)) and	1	
	1	pump) and parameter) and operating) and		
1	1	(high with frequency with fluctuations)		
	2		USPAT;	2003/04/16 07:26
-	2		US-PGPUB	2003/04/16 07:26
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage or V-A)) and		
}		(high with frequency fluctuations)) and		1
1		pump) and parameter) and operating) and		
		(frequency with fluctuations)		
~	4	1 (USPAT;	2003/04/16 07:18
		(characteristic with curve with	US-PGPUB	i
		(voltage-current or voltage or V-A)) and		
		(high with frequency with fluctuations)		
-	3	((monitor\$3 with system) and	USPAT;	2003/04/16 07:09
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage or V-A)) and		
		(high with frequency with fluctuations))		
1		and pump		1
_	16	1	USPAT;	2003/04/16 09:51
		(characteristic with curve) and	US-PGPUB	
		(voltage-current or voltage or V-A) and		
		(high with frequency with fluctuations)		
-	5	((monitor\$3 with system) and	USPAT;	2003/04/16 07:24
		(characteristic with curve) and	US-PGPUB	= 3 3 3 , 3 3 , 1 2 1
		(voltage-current or voltage or V-A) and	30 13132	- 4
		(high with frequency with fluctuations))		
		and (curve with (voltage-current or		
		voltage or V-A))		
	2.5		HCDAT.	2003/04/16 07:28
1 -	25		USPAT;	2003/04/10 0/:28
		(voltage-current or voltage or V-A))	US-PGPUB	2002/04/16 02 05
-	1	1 , , , , , , , , , , , , , , , , , , ,	USPAT;	2003/04/16 07:26
	i	(voltage-current or voltage or V-A))) and	US-PGPUB	
		(frequency with fluctuations)		1 0000 101 15 55 55
-	1		USPAT;	2003/04/16 07:27
		(characteristic with curve with	US-PGPUB	
		(voltage-current or voltage or V-A)) and		
1	1	(high with frequency fluctuations)) and		
		(pump with cavitat\$3)		
-	11	(curve with (voltage-current or voltage or	USPAT;	2003/04/16 07:43
	i	V-A)) and (high with frequency with	US-PGPUB	
		fluctuations) and pump		
_	5		USPAT;	2003/04/16 07:30
		or V-A)) and (high with frequency with	US-PGPUB	
		fluctuations) and pump) and parameter		
L	1			

-	1	(curve with (voltage-current or voltage or	USPAT;	2003/04/16 07:39
		V-A)) and (high with frequency with	US-PGPUB	
		fluctuations) and (electrical with		!
		operating with parameter)		
_	0	(monitor\$3 with rountine) and (operat\$4	USPAT;	2003/04/16 09:12
		with parameter) and (expert with engine)	US-PGPUB	
		and (neural with network)		
_	6	((monitor\$3 with routine) and (operat\$4	USPAT;	2003/04/16 09:33
		with parameter) and (expert with engine)	US-PGPUB	
		and (neural with network)) and cavitat\$3		
· _	7	((monitor\$3 with routine) and (operat\$4	USPAT;	2003/04/16 09:17
		with parameter) and (expert with engine)	US-PGPUB	li l
		and (neural with network)) and pump		
_	10	(monitor\$3 with routine) and (operat\$4	USPAT;	2003/04/16 09:32
		with parameter) and (expert with engine)	US-PGPUB	
		and (neural with network)		
_	47		USPAT;	2003/04/16 09:50
		parameter) and (expert with engine) and	US-PGPUB	
	ŀ	(neural with network)		
<u>_</u>	9		USPAT;	2003/04/16 10:28
		with parameter) and (expert with engine)	US-PGPUB	
		and (neural with network)) and cavitat\$3		1.0
		,	<u> </u>	I

-	164	("3096434"	"3404264"	I "3468164"		USPAT	2003/04/16 09:48
		"3590370"	"3688190"	3691842"	1		2003/04/10 03:40
		"3701280"	"3973184"	"RE29383"	i		
ĺ		"4058975"	"4099413"	"4102199"	ì		
1		"4122719"	"4250490"	•	i		
		"4399824"	"4517468"	"4530234"			
		"4571689"	"4635214"	"4642782"	1		
		"4644479"	"4649515"		1	i	
		"4736367"	"4777585"	"4831564"	1		
		"4841286"	"4873655"	"4907167"	! 		
		"4924418"	"4934196"	"4939753"	! !		
f		"4964125"	"4988990"	"4992965"	! !		
		"5005142"	"5043862"	"5053815"	1		
		"5067099" i	"5081598"	"5089984"	! !		
1		"5098197"	"5099436"	"5103409"	! !		•
		"5111531"	"5121467"	"5122794"	! !		•
		"5122976"	"5130936"	"5134574"	 		
		"5137370" I	"5142612"] i		
		"5148378" I	"5167009" I	"5143452" "5175678"	 		
		"5193143" I	"5197114" I	"5197328"			
		"5212765"	"5214582"				
		"5228780" i	"5235527"	"5224203"	l I		
		"5265222" I		"5265031"			
ŀ		"5282131" I	"5269311"	"5274572"			
	1	"5303181" I	"5282261" "5305230"	"5293585"			
		"5317520"		"5311421"			
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		"5467355"	"5469070"	"5469156"			
		"5469735"	"5481199"	"5483387"			ļ
		"5485753"	"5486996"	"5488697"			
ı		"5489831"	"5495769"	"5510799"			
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1	ŀ	"5637802" I	"5600148"	"5623605"			
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+	ļ	"5781878"	"5801689"	"5805442"			
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-		"5859964"	"5876122"	"5887978"			
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		"5940290"	"5956663"	"5970430"			
	İ	"6016706"	"6017143"	"6045260"			
	ļ	"6047220"	"6047222"				
		"6192281"	"6195591"				
		"6263487"	"6298377").	PN.			

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and (neural with network)) and pump) and			with parame	ter) and (ex	pert with en	gine)		12, 22, 20
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- 2 (monitor\$3 with system) and (alert with USPAT; 2003/04/16 10:40	-	2		with system)	and (alert	with		2003/04/16 10:40
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-	2	(alert with cavitat\$3)	USPAT;	2003/04/16 10:33
_	95	(monitor\$3 with system) and alert and	US-PGPUB USPAT;	2002/04/16 10:41
		cavitat\$3	US-PGPUB	2003/04/16 10:41
-	8	((monitor\$3 with system) and alert and	USPAT;	2003/04/16 10:41
_	3	cavitat\$3) and (characteristic with curve)	US-PGPUB	
	3	(702/\$.ccls. and cavitat\$4 and (operat\$3 with parameter) and (monitor\$3 with data))	USPAT;	2003/04/16 12:08
		and (characteristic with curve)	US-PGPUB	
-	2	(((monitor\$3 with system) and (operat\$4	USPAT;	2003/04/16 12:58
		with parameter) and (expert with engine)	US-PGPUB	
		and (neural with network)) and pump) and (pump with impeller)		
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-	<pre>2 ((monitor\$3 with system) and (opera with parameter) and (expert with en and (neural with network)) and (pur</pre>	ngine) US-PGPUB	59
-	impeller) 1 ((monitor\$3 with system) and (characteristic with curve with (voltage-current or voltage or V-A)	USPAT; US-PGPUB 2003/04/16 12:	59
-	(high with frequency fluctuations)) (pump with impeller) 6 (detect\$3 with cavitation) and (open with parameter) and (pump with imperior)	erat\$3	03

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